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- See application file for complete search history.

- (56)
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 340 days.

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- (51) **Int. Cl.**

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|--------------------|-----------|
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(2013.01); ***A61B 17/072*** (2013.01); ***A61B***
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- (57)

ABSTRACT

Medical devices and related methods for closing a perforation in a bodily wall are provided. The medical device generally includes an introducer device having a base defining a plurality of recesses formed therein. Visceral staples are disposed within the recesses in a delivery state and are biased toward a deployed state. A holding mechanism retains the staples in the delivery state, and the holding mechanism is moveable relative to the base to allow the staples to extend out of the recesses. The biased nature of the staples will cause them to transition into the deployed state after the staples have been released, such that the staples will thereby pierce adjacent tissue and remain closed. The holding mechanism can be retractable or pivotable out of engagement with the staples. The introducer device can include upper and lower jaws or a slidable cover relative to the base.

20 Claims, 7 Drawing Sheets

